

AMENDED CLAIMS

1. A long life gas engine oil comprising a major amount of an oil of lubricating viscosity and a minor amount of additives comprising phenolic anti oxidants, a low ash gas engine oil detergent system having a TBN of about 50 to about 300, from about 0.05 to about 1.5 vol% of antiwear additives and viscosity index improver which does not contain aminic anti oxidant, wherein the oil of lubricating viscosity has a viscosity of between 9 to 13 cSt at 100°C, said oil of lubricating viscosity being a synthetic, hydrocracked or solvent refined oil or mixtures thereof, and which oil of lubricating viscosity does not contain a base stock having a viscosity of 20 cSt or higher at 100°C, wherein the phenolic anti oxidant is present in an amount in the range of about 0.1 to 2 vol% and the viscosity index improver is present in an amount sufficient to increase the viscosity of the engine oil to about 13.2 cSt at 100°C and wherein said amount is in the range of about 0.1 to 3 vol% and wherein the gas engine oil has a low ash content in the range of 0.1 to 0.6 wt%.

6. A method for enhancing the life of gas engine oils as evidenced by a reduction in viscosity increase, oxidation, nitration, TAN increase, and TBN depletion, comprising adding to a gas engine oil base stock having a viscosity of 100°C of from 9 to 13 cSt, the base stock being a synthetic, hydrocracked or solvent refined oil or mixture thereof but which base stock does not contain a base stock having a viscosity of 20 cSt or higher at 100°C, a minor amount of an anti oxidant in the range of about 0.1 to 2 vol% from about 0.05 to about 1.5 vol% of antiwear additives, and a minor amount of a viscosity index improver in the range of about 0.1 to 3 vol% which does not contain aminic anti oxidants and, wherein the anti oxidant is selected from the group consisting of phenolic anti oxidants, and a minor amount of a low ash gas engine oil detergent

system having a TBN of about 50 to about 300 wherein the gas engine oil has a low ash content in the range of 0.1 to 0.6 wt%.